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HP Docket No. 200208391-1

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A method of responding to a request for information, the method comprising:

 caching a compression dictionary at a server;

 receiving at the server a request for information from a requestor, wherein the request is in compressed form;

 decompressing the received request for information at the server using the cached compression dictionary;

processing the decompressed request at the server so as to generate requested information at the server;

 compressing the requested information at the server using the cached compression dictionary; and

 sending the compressed information from the server to the requestor with an identifier of the compression dictionary.

2. (Previously presented) The method of claim 1 wherein the compressed information is decompressed directly to an object model document.

3. (Original) The method of claim 2 wherein the object model comprises Document Object Model (DOM).

4. (Canceled)

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5. (Original) The method of claim 1, further comprising:
creating a compression dictionary.

6. (Canceled)

7. (Currently amended) A method of sending a request for information, the method comprising:
caching a compression dictionary at a client;
compressing a request for information at the client using the cached compression dictionary;
sending the compressed request for information from the client to a server;
receiving at the client the requested information from the server, wherein the information received is generated by the server in response to the request and compressed by the server; and
decompressing the requested information at the client using the cached compression dictionary.

8. (Canceled)

9. (Previously presented) The method of claim 7, wherein the compressed information is decompressed directly to an object model document.

10. (Original) The method of claim 9, wherein the object model comprises Document Object Model (DOM).

11. (Original) The method of claim 7, further comprising:
obtaining a compression dictionary.

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12. (Original) The method of claim 7, wherein the information received comprises a compression dictionary identifier, the method further comprising:

- using the compression dictionary identifier included with the information received to determine if the proper compression dictionary is cached; and
- obtaining the proper compression dictionary if the proper compression dictionary is not in cache.

13. (Original) The method of claim 12, wherein calculating a compression dictionary identifier may include determining the identifier using a derived hash value for the dictionary.

14. (Previously presented) The method of claim 11, wherein the compression dictionary is retrieved from a network location different from the server and the client.

15. (Withdrawn) A communication system comprising:

- a network;
- two or more network nodes, wherein the network nodes are interconnected via the network;
- means for compressing messages; and
- means for decompressing messages.

16. (Withdrawn) The communication system of claim 15, further comprising:

- means for creating a compression dictionary.

17. (Withdrawn) The communication system of claim 15, wherein the two or more network nodes are selected from the group consisting of a computer, a mobile phone, a personal digital assistant (PDA), a handheld navigation device, and a printer.

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18. (Currently amended) A method of communicating over a network, the method comprising:

creating a compression dictionary from a web services description language of a web service;

publishing the compression dictionary on a network resource, wherein the compression dictionary is ~~available upon~~ retrievable via an HTTP get request to the web service ~~across the network;~~

retrieving the compression dictionary from the network resource;

caching the compression dictionary; and

compressing and decompressing messages received from or sent to the web service according to the compression dictionary, wherein the messages include markup tags, and wherein the markup tags are compressed and decompressed.

19. (Original) The method of claim 18, wherein the compression dictionary comprises compressed representations of Extensible Markup Language (XML) tags.

20. (Original) The method of claim 18 wherein the compressing and decompressing messages comprises compressing and decompressing messages directly to and from an object model document.

21. (Original) The method of claim 20 wherein the object model comprises Document Object Model (DOM).

22. (Original) The method of claim 18, wherein creating a compression dictionary comprises:

creating a list of one or more files;

extracting portions of the files from the list of one or more files;

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creating a compression dictionary including portions extracted from the one or more files.

23. (Canceled)

24. (Withdrawn) A method of creating a compression dictionary, the method comprising:
creating a list of one or more files;
extracting portions of the files from the list of one or more files;
identifying unique portions extracted from the one or more files;
creating a compression dictionary including unique portions extracted from the one or more files.

25. (Withdrawn) The method of claim 24, wherein the extracting portions of the files comprises extracting Extensible Markup Language (XML) tags.

26. (Withdrawn) The method of claim 24, further comprising:
counting the occurrences of each unique portion extracted from the one or more files; and
creating a compression dictionary including the most commonly occurring unique extracted portions from the one or more files.

27-28. (Canceled)

29. (Withdrawn) A communication system comprising:
a server;
a client workstation;
a network, wherein the server and the client workstation are operatively connectable via the network; and
operable software on both the server and client workstation for compressing and

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decompressing a message for communication over the network, the software including:

instructions for encoding and decoding a message according to a compression dictionary, wherein the compression dictionary maps a character segment to a character code.

30. (Withdrawn) The communication system of claim 29 wherein the character segment is an Extensible Markup Language (XML) tag.

31. (Withdrawn) The communication system of claim 29 wherein the character code is a single character.

32. (Withdrawn) The communication system of claim 29 further comprising:
operable software on at least one of the client and the server for creating a compression dictionary, the software including:

instructions for identifying and extracting character segments of one or more files, wherein the character segments appear one or more times in the one or more files, and

instructions for creating a compression dictionary based on extracted character segments from the one or more files, wherein the compression dictionary maps the extracted character segments to a character code.

33. (Withdrawn) The communication system of claim 32, wherein the character segments are Extensible Markup Language (XML) tags.

34. (Withdrawn) The communication system of claim 33 wherein the character code is a single character.

35. (Currently amended) A method of responding to a request for information, the method comprising:

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creating a compression dictionary tailored for selected information;
receiving at a server a request for at least a portion of the selected information from a requestor, wherein the request is in compressed form;
decompressing the received request at the server using the compression dictionary;
customizing the information for the requestor at the server;
dynamically compressing the customized requested information at the server using the compression dictionary; and
sending the compressed information from the server to the requestor with an identifier of the compression dictionary.

36. (Previously presented) The method of claim 5, comprising:
publishing the compression dictionary to a network resource different from the server and the requestor.

37. (Previously presented) The method of claim 18, wherein the markup tags comprise Extensible Markup Language (XML) tags.

38. (New) The method of claim 18, wherein the HTTP get request to the web service includes an identifier associated with a prestored compression dictionary.

39. (New) The method of claim 38, wherein the retrieving is not performed if the web service determines from the identifier that the prestored compression dictionary is acceptable for the compressing and decompressing the messages.

40. (New) The method of claim 18, comprising:
publishing the web services description language on the network resource, wherein the web services description language is accessible via an HTTP get request to the web service.

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41. (New) The method of claim 18, wherein the creating includes determining Extensible Markup Language (XML) tags for messages supported by the web service and generating compressed representations of the tags for the compression dictionary.